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ABSTRACT

**Compact waveguide filter**

The invention provides a particularly compact waveguide-type filter that can be easily adapted to a microstrip circuit. The waveguide filter comprises at least three mutually coupled resonant cavities 14 to 19. The filter is coupled to a microstrip circuit placed on a substrate 10. At least one cavity 14, 15, 18 and 19 lies on one side of the substrate 10 and at least one other cavity 16, 17 lies on the other side of the substrate 10. The cavities distributed on either side of the substrate have the effect of greatly reducing the size of the filter. The invention also relates to an outdoor transmission unit that includes the said filter.

Figure 2